NEOTEX S.A.
CONSTRUCTION CHEMICALS SINCE 1959
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ATHENS: V. Moira str., P.O. Box 2315, GR 19600 Industrial Area Mandra, Athens, Greece, Tel.: +30 210 5557579, Fax: +30 210 5558482
THESSALONIKI: Ionias Str., GR 57009 Kalochori, Thessaloniki, Greece, Tel.: +30 2310 467275, Fax: +30 2310 463442

Neoproof® PU Fiber

Fiber-reinforced water-based polyurethane waterproofing coating for roofs

CE

Description

Neoproof® PU Fiber is a fiber-reinforced, one-component, water-based polyurethane waterproofing coating, ideal for applications on exposed roofs. It may be applied on the whole surface or locally in difficult areas and details, such as around ventilation units, chimneys, pipes, gutters, etc.

Fields of application

- Exposed roofs made of concrete, cement tiles, cementitious screeds
- Rooftops where high resistance to ponding water is required
- Metallic surfaces
- On top of new or old liquid waterproofing membranes
- On top of mineral bitumen membranes

*The above surfaces require appropriate preparation and priming prior to the application of **Neoproof® PU Fiber***

Properties - Advantages

- Fiber-reinforced - Forms an impermeable to moisture elastic membrane of increased thickness, with exceptional crack-bridging properties
- Combines high mechanical strength and excellent adhesion on various building surfaces
- Excellent resistance to ponding water
- Ideal waterproofing solution for walkable roofs
- Long-lasting resistance to UV radiation and adverse weather conditions
- Ideal solution for slightly uneven substrates and for local applications in difficult places or repairs of older liquid waterproofing membranes
- No signs of blisters or craters on the surface, during the curing phase
- Compatible with **Neoproof® PU W** and other water-based waterproofing coatings
- Eco-friendly & user-friendly (water-based, one-component)
- CE certified acc. to EN 1504-2

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Technical characteristics

Density (EN ISO 2811-1)	1,36kg/L (± 0,01)
Elongation at break (ASTM D412)	210% (±20)
Tensile strength at break (ASTM D412)	3,30MPa (±0,30)
Adhesion strength (EN 1542)	>2N/mm^2
Hardness Shore A (ASTM D2240)	67
Liquid water permeability (EN 1062-3)	<0,1kg/m^{2}h^{0,5}
CO_2 diffusion - Equivalent air layer thickness S_d (EN 1062-6)	>50m
Water-vapor diffusion - Equivalent air layer thickness S_d (EN ISO 7783)	0,9m (Class I - permeable)
Service temperature	-15°C min. / +80°C max.
Consumption	**1,2-1,4kg/m^2 for two layers (cementitious surface)**

Curing details

Drying time (+25°C, RH 50%)	2-3 hours (initially)
Dry to recoat (+25°C, RH 50%)	24 hours
Total hardening	~7 days

** Low temperatures and high humidity during application and/or curing prolong drying times*

Appropriate primers for usual substrates

Substrate	Primer	Description - Details
Concrete, cement screed	**Revinex®** (diluted with water 1:4)	Water-based primer of high adhesion on cementitious substrates
	Silatex® Primer	Acrylic solvent-based primer, with high penetrating ability
	Vinyfix® Primer	Solvent-based primer based on vinyl resins, ideal for stabilizing brittle substrates
Bitumen membrane with mineral slates	**Revinex®** (diluted with water 1:4)	Water-based primer, suitable for stabilizing bitumen membranes with mineral slates, offering an ideal bridge of adhesion

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Metal	**Neotex® Metal Primer**	Water-based, one-component anti-corrosive primer, with excellent adhesion on old or new metal surfaces
Inox, galvanized steel, aluminium	**Neotex® Inox Primer**	One-component water-based primer, with high adhesion strength on glossy non-porous substrates

Instructions for use

Surface preparation: The surface must be stable, clean, dry, protected from rising moisture and free of dust, grease, and loose materials. Any poorly adhering materials and older coatings should be removed, and the surface should be thoroughly cleaned mechanically or chemically. Depending on the substrate, appropriate mechanical preparation may be required, to smooth the irregularities, open the pores and create the optimum conditions for adhesion. The surfaces should be sufficiently flat, smooth, and continuous (i.e., without holes, cracks, bays, etc.). In the opposite case, they should be treated accordingly (e.g., by proper puttying).

Priming: Prior to the application of **Neoproof® PU Fiber**, the proper **NEOTEX®** primer should be applied, depending on the substrate. In the case of cementitious substrates, it is proposed to apply **Revinex®** diluted with water in a ratio **Revinex®**: water - 1:4 or the solvent-based primers **Silatex® Primer** or **Vinyfix® Primer**.

Application: Following the priming of the surface, **Neoproof® PU Fiber** is applied, after thorough stirring, in at least two layers by roller, brush or airless spray. The first layer is diluted 5% with clean water, while the second layer (and every subsequent one) follows after app. 24 hours, applied undiluted. Every layer of **Neoproof® PU Fiber** should be applied in a vertical or different direction than the previous one.

Notes

- *Application conditions*: Substrate moisture content: <4%, Relative air humidity: <80%, Ambient and substrate temperature: +10°C min. / +35°C max.
- **Neoproof® PU Fiber** should not be applied under wet conditions, or if wet conditions are expected to prevail during the curing period of the product.
- For demanding applications or when covering cracks of considerable width, as well as in the upstands-floor intersections, it is advisable that **Neoproof® PU Fiber** is reinforced with the specially designed non-woven polyester fabric **Neotextile®**. In such cases, at least three coats of **Neoproof® PU Fiber** are required.

Maintenance instructions

- The total hardening of the film occurs app. 7 days after the application of the final layer, depending also on the atmospheric conditions. During this period, it is advisable that the access to the application area is prohibited or limited to specialized personnel.
- It is recommended to annually inspect the coating for any damage caused by accidental impact or misuse.
- In case of need for local repairs, **Neoproof® PU Fiber** is re-applied

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at least in its original dry film thickness, after cleaning and priming (if necessary) the affected area. Where appropriate, it is recommended that the non-woven polyester fabric **Neotextile®** is used as a reinforcement.

- Periodic cleaning by water-jetting is advisable (combined with a neutral washing agent, if needed), especially in case of heavy accumulation of dirt, dust and pollutants on the surface

Appearance	Viscous liquid
Colours	White RAL 9003
Cleaning of tools – Stains removal	By water immediately after application. In case of hardened stains, by mechanical means
Volatile organic compounds (V.O.C.)	V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AcWB: 40g/l (Limit 1.1.2010) V.O.C. content of the ready to use product <40g/l
UFI code	SCF0-S0HQ-100T-932V
Packing	13kg and 4kg in plastic pails
Versions	**Neoproof® PU W** for walkable roofs with requirement of resistance to ponding water **Neoproof® PU W -40** with resistance to extremely low temperatures down to -40ºC **Neoproof® PU360** for non-exposed surfaces
Storage stability	2 years, stored in its original sealed packing, protected from frost, humidity and exposure to sunlight

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NEOTEX S.A V.Moira str., P.O. Box 2315 GR 19600 Industrial Area Mandra, Athens, Greece 21	
1922-CPR-0386 Dop No./4950-67 EN 1504-2 **Neoproof® PU Fiber** Surface Protection System for Concrete Coating	
Water vapour permeability	Class I
Adhesion strength	≥0,8N/mm²
Capillary absorption and permeability to water	W<0.1Kg/m^{2}h$^{0.5}$
Permeability to CO_2	S_D>50m
Reaction to fire	Euroclass F
Dangerous substances	Comply with 5.3